INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/24351

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G01N 33/48 US CL : 702/19					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 702/19; 211/41.12					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched .					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet					
	IMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ap		Relevant to claim No.		
x	US 2002/0169560 A1 (HYTOPOULOS et al.) 14 No	vember 2002 (14.11.2002), see	1, 3, 5, 7		
Y	especially Detailed Description		2, 4, 6, 8		
Y	US 2002/0178150 A1 (HYTOPOULOS et al.) 28 November 2002 (28.11.2002), see especially Detailed Description.		1-8		
Y	US 6,496,834 B1 (CEREGHINI et al.) 17 December Detailed Description of the Preferred Embodiment.	2002 (17.12.2002), see especially	1-8		
Y	YEUNG et al. Model-based clustering and data transformations for gene expression data. Bioinformatics. 2001, Volume 17, Number 10, pages 977-987, see especially Model-Based Cluster Approach.				
Y	MURO et al. Identification of expressed genes linked carcinoma by parametric clustering of quantitative ex 2003, Volume 4, R21, pages R21-R21.10, especially	pression data. Genome Biology.	1-8		
Further	documents are listed in the continuation of Box C.	See patent family annex.			
Special categories of cited documents: "A" document defining the general state of the art which is not considered to be		"T" later document published after the date and not in conflict with the ap principle or theory underlying the	plication but cited to understand the		
of partice	alar relevance splication or patent published on or after the international filing date	"X" document of particular relevance; considered novel or cannot be conwhen the document is taken alone	the claimed invention cannot be		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination			
"O" documen	t referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled i			
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same par			
Date of the actual completion of the international search		Date of mailing of the international search report 16 MAR 2005			
03 February 2005 (03.02.2005) Name and mailing address of the ISA/US		Authorized officer	Wallatto		
Mail Stop PCT, Atm: ISA/US Commissioner for Patents		Carolyn Smith			
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Form PCT/ISA/210 (second sheet) (January 2004)

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
		Relevant to claim No. 1-8		

•	International application No.	
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Continuation of B. FIELDS SEARCHED Item 3: WEST, PUBMED, EMBASE, BIOSIS, SCISEARCH searching terms: missing, v algorithm, estimate, partition, classification, maximize, converge, computer, method	alue, microarray, cluster, Gaussian, GMCimpute, od, program, software	